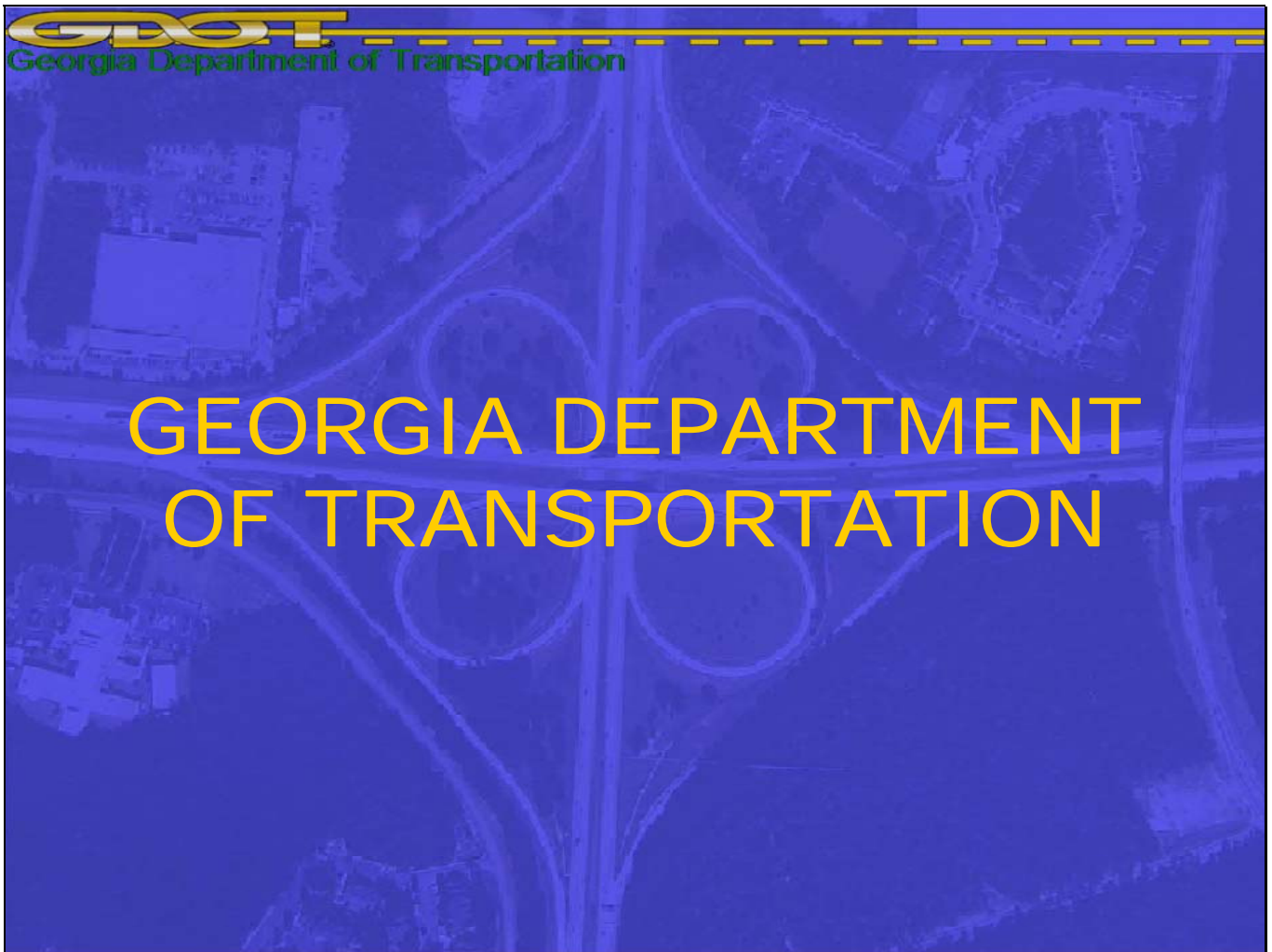


# I-20/I-520 Interchange Presentation



Atlanta, Georgia

January 10, 2007

# I-20 / I-520 Interchange



Slide 2

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## I-20 / I-520 Interchange



Slide 3

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Georgia Department of Transportation

## Present Conditions

- Present Annual Average Daily Traffic (AADT)
  - I-520 (Wheeler Rd to Scott Nixon) 91,400 AADT
  - I-20 (Belair Rd to Wheeler Rd) 67,520 AADT
  - I-20 (Wheeler Rd to Walton Way Ext.) 75,260 AADT

## Present Issues

- Capacity
- Poor Storm Water Control
- Aging Structures
- Noise Levels

Slide 4

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## Proposed Project

- PI 210570- Richmond
  - I-20/I-520 Interchange Reconstruction
  - Let Date: 03/2007
- PI 0008219 Columbia/Richmond
  - Widening of I-20 from Belair Road to Wheeler Road
  - Let Date: 03/2007

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Georgia Department of Transportation

## Proposed Project

- Approximate Const. Cost      \$160,000,000 Est.
- Capacities
  - I-520 (Wheeler Rd to Scott Nixon)      111,940 AADT (2029)
  - I-20 (Belair Rd to Wheeler Rd)      103,280 AADT (2029)
  - I-20 (Wheeler Rd to Walton Way Ext.)      116,620 AADT (2029)
- Time of Construction      36 Months

### Improvements

- Increased storm water retention reducing discharges into Cranes Creek Drainage Basin
- Installation of sound walls for comfort of residents and businesses
- More sophisticated and clean urban aesthetic
- Separation of local trip and through traffic

Slide 6

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- Distinctive Characteristics

- 
- An aerial photograph of a complex highway interchange. A white curved arrow starts from the left, loops around a central area, and points towards the bottom right. Several cyan-colored shapes are overlaid on the image, highlighting specific areas: a large shape on the left, a smaller one in the center, and several others on the right side of the interchange. The highway has multiple lanes and overpasses. A red and blue shield with the number 20 is visible at the top, and another with 520 is on the right. A red and blue shield with the number 20 is also visible at the bottom. The surrounding area includes some buildings and greenery.

Slide 7

[illegible]



- Distinctive Characteristics
  - Flyover Ramps





- Distinctive Characteristics
  - Collector - Distributor Lanes

**I-20 EB and Davis Road to I-520  
WB**

## I-20 EB and WB to I-520 EB

## Consolidating Wheeler Road to I-20 EB, I-20 WB, and I-520 WB

[illegible]

- Distinctive Characteristics
  - Grade Separation Intersection

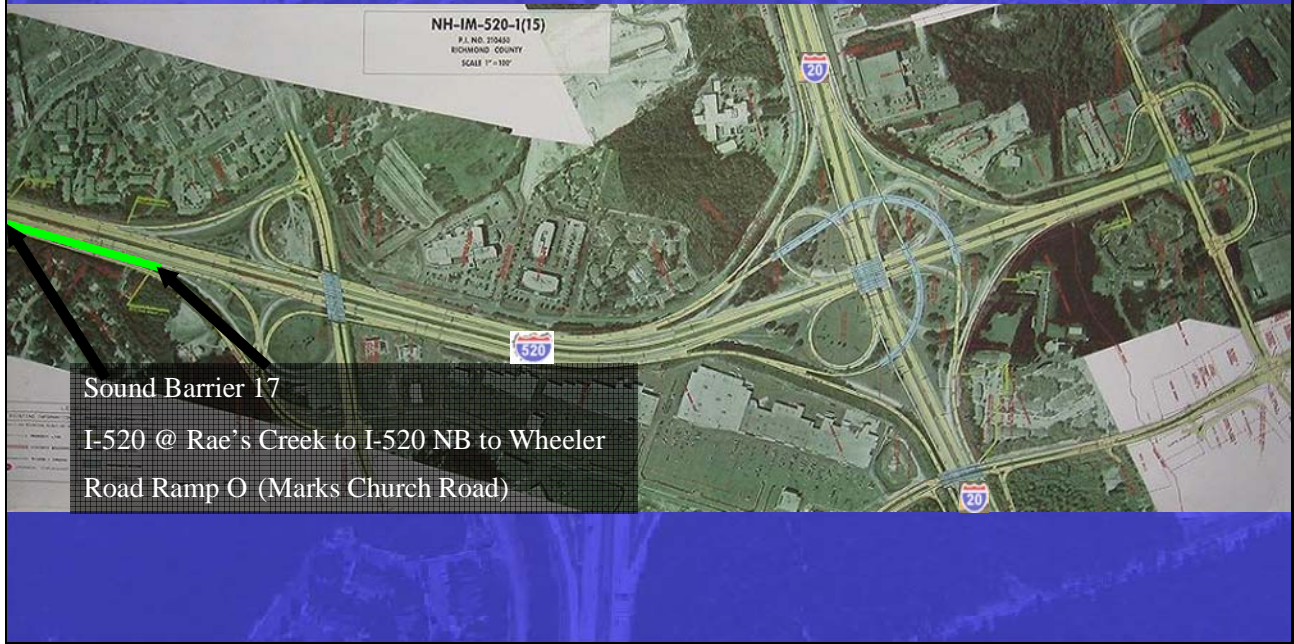


Slide 10



# Proposed Project

- Distinctive Characteristics
  - Sound Barriers



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- Distinctive Characteristics

- Sound Barriers



NH-IM-520-1(15)  
P-I NO 210450  
RICHMOND COUNTY  
STATE OF NH

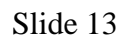
Wheeler Road to I-520 EB Ramp  
(Marks Church Commons)

## Sound Barrier 17

I-520 @ Rae's Creek to I-520 NB to Wheeler  
Road Ramp O (Marks Church Road)

[illegible]

- Distinctive Characteristics
  - Sound Barriers





- Sound Barriers



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# Proposed Project

- Distinctive Characteristics

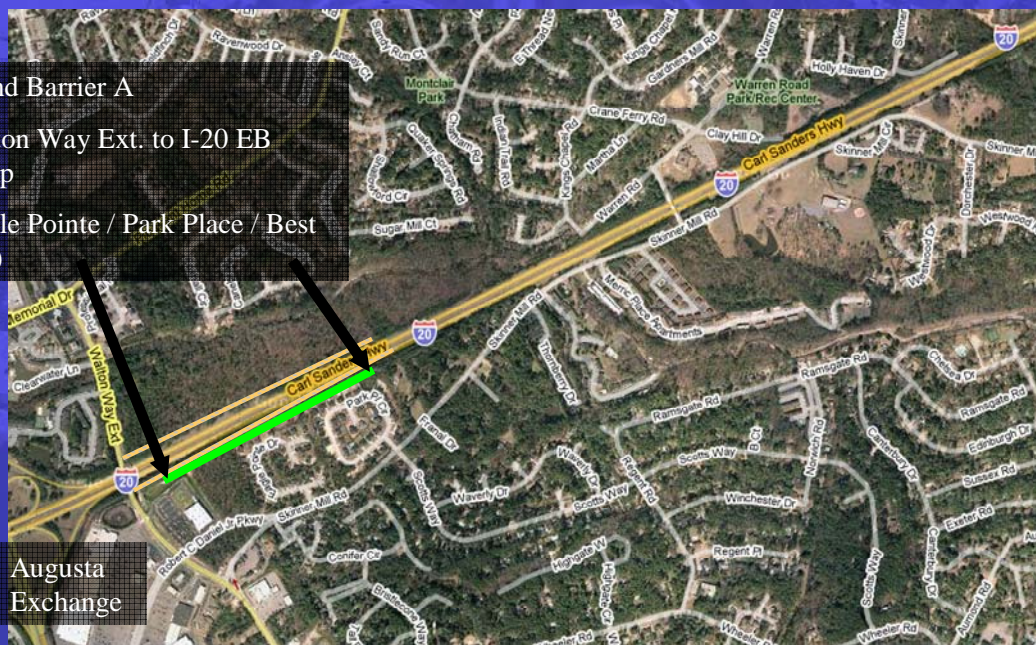
- Sound Barriers

Sound Barrier A

Walton Way Ext. to I-20 EB

Ramp

(Eagle Pointe / Park Place / Best Buy)



Augusta Exchange

Slide 15

# Proposed Project

- Distinctive Characteristics

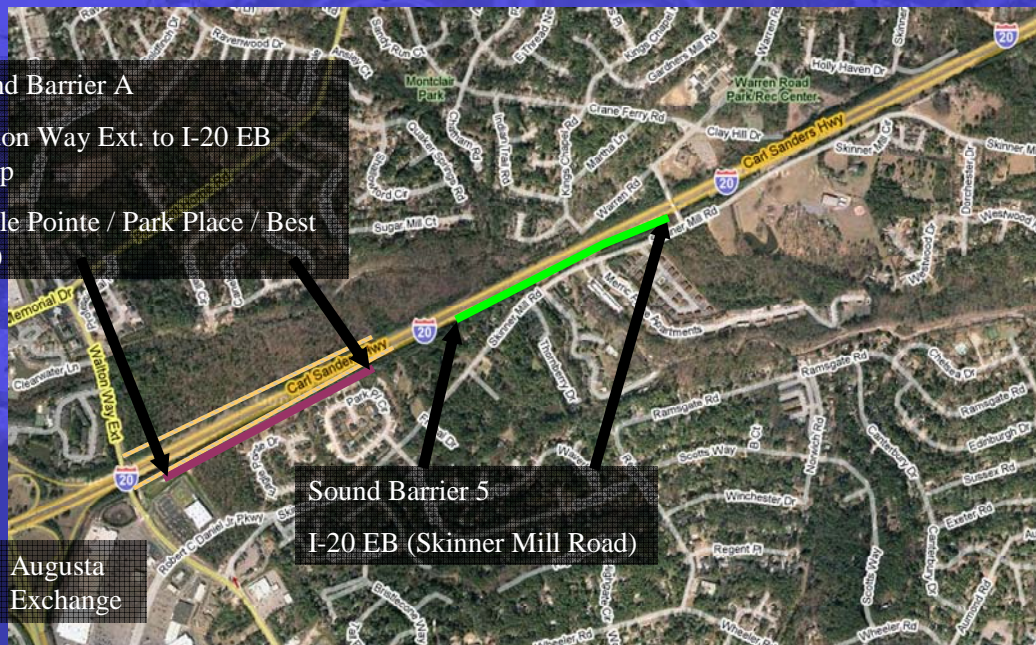
- Sound Barriers

Sound Barrier A

Walton Way Ext. to I-20 EB

Ramp

(Eagle Pointe / Park Place / Best Buy)



Sound Barrier 5

I-20 EB (Skinner Mill Road)

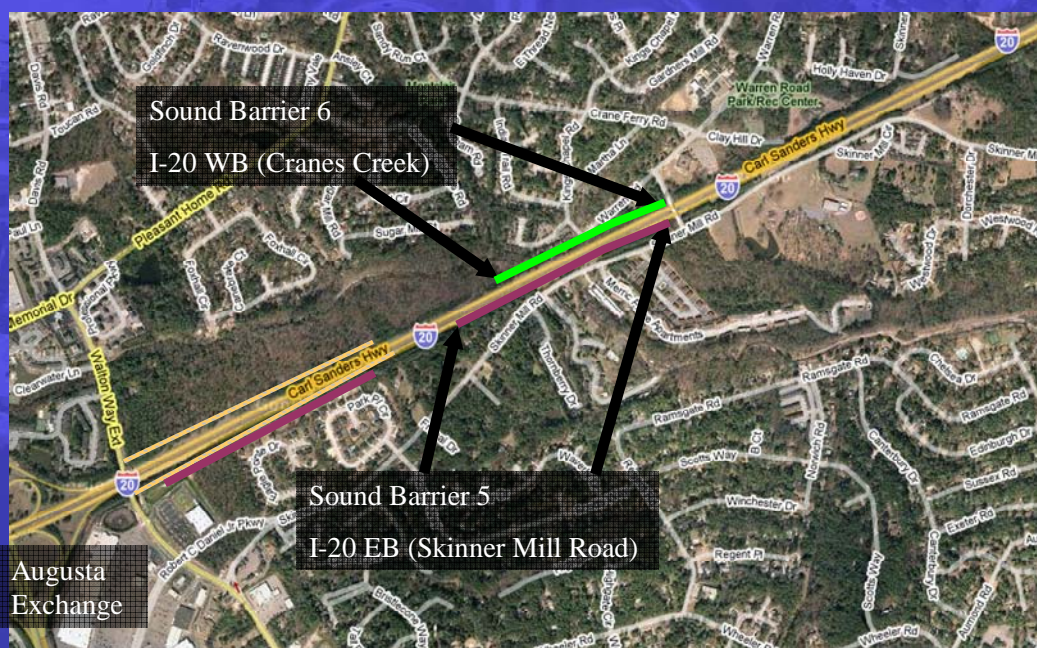
Augusta Exchange

Slide 16



- Distinctive Characteristics

- Sound Barriers



Slide 17



- Sound Barriers -- NH-IM-20-2(145)



- Distinctive Characteristics
  - Sound Barriers -- NH-IM-20-2(145)





- Distinctive Characteristics
  - Sound Barriers -- NH-IM-20-2(145)





Georgia Department of Transportation

## Affects to Traffic

- Our Goal is to Minimize Impact to Public
- Maintaining Existing Lane Capacities
- Observant of Holidays & Tournaments
- Around the Clock Construction
- Night Time and Saturday Closures
- Supplemental Law Enforcement
- Real-Time Workzone Information System
- Detours

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## Affects to Traffic

- Contractor required to provide continuous coordinated signal operations during construction
  - Required to prepare traffic signal operational plans for each stage of construction at a signalized intersection
  - Required to perform preliminary information gathering such as traffic volumes for each stage of construction at a signalized intersection
  - Required to develop, implement, monitor, and field adjust traffic signal timing plans to efficiently manage the traffic during each stage of the construction
- Contractor required to provide closed loop signal operation during the Masters Tournament

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Georgia Department of Transportation

# Important Closures and Detours

## Lane Closures

➤ Allowable times for single lane closures:

- From 9 p.m. Sunday to 6 a.m. Monday
- From 9 p.m. Monday to 6 a.m. Tuesday
- From 9 p.m. Tuesday to 6 a.m. Wednesday
- From 9 p.m. Wednesday to 6 a.m. Thursday
- From 9 p.m. Thursday to 6 a.m. Friday
- From 10 p.m. Friday to 7 a.m. Sunday

➤ Allowable times for double lane closures:

- From 10 p.m. Sunday to 5 a.m. Monday
- From 10 p.m. Monday to 5 a.m. Tuesday
- From 10 p.m. Tuesday to 5 a.m. Wednesday
- From 10 p.m. Wednesday to 5 a.m. Thursday
- From 10 p.m. Thursday to 5 a.m. Friday
- From 11 p.m. Friday to 6 a.m. Saturday
- From 11 p.m. Saturday to 6 a.m. Sunday

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Georgia Department of Transportation

## Real-Time Workzone Information System

### Equipment

- Twenty Portable Changeable Message Signs (PCMS)
- Twelve Portable Traffic Sensors
- Website

### Operation

- PCMS Provide Speed, Delay, Length of traffic queue, and Lane closure advisories to motorists
- Website depicts entire project area reflecting current traffic conditions using color coding

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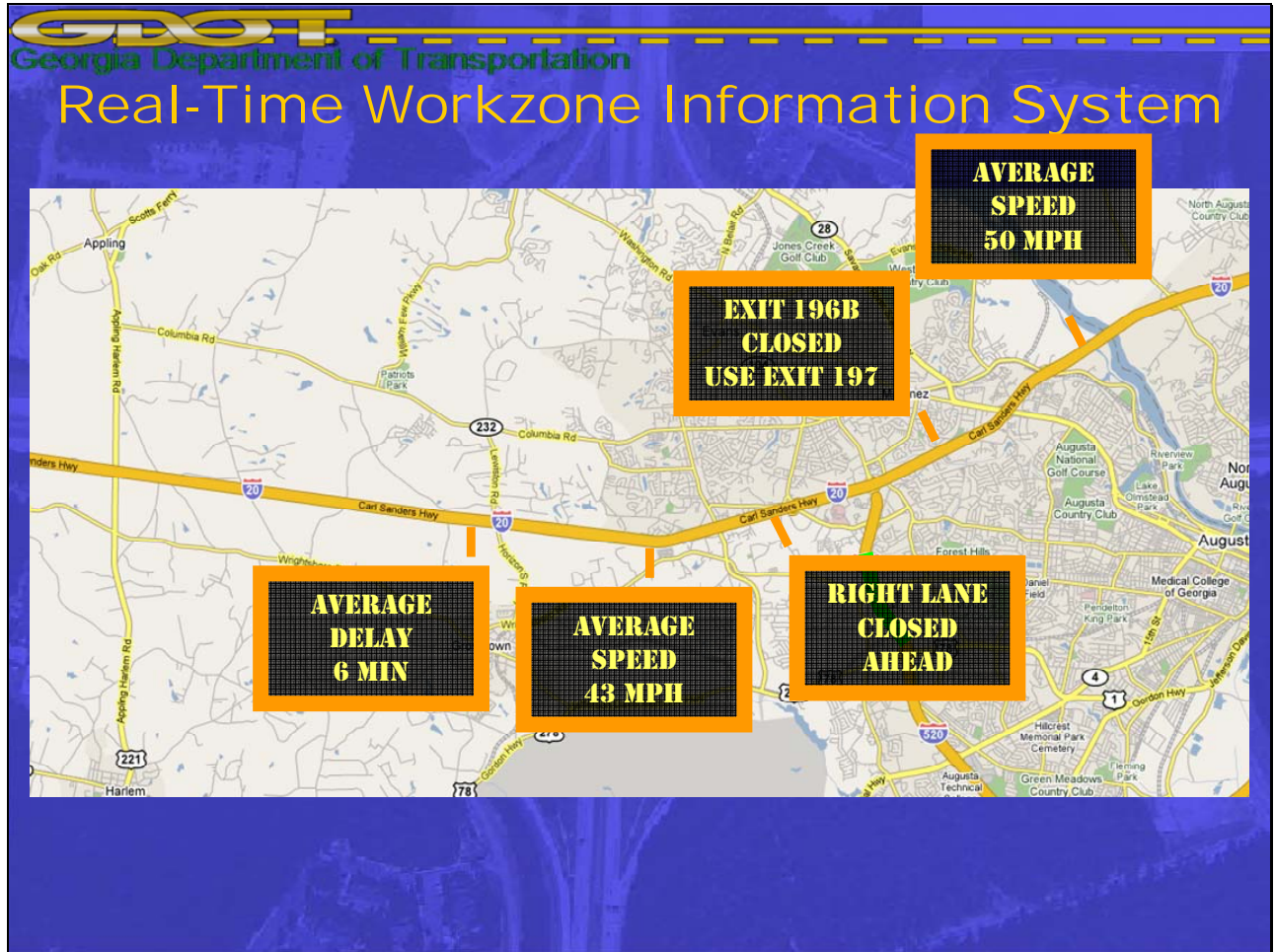
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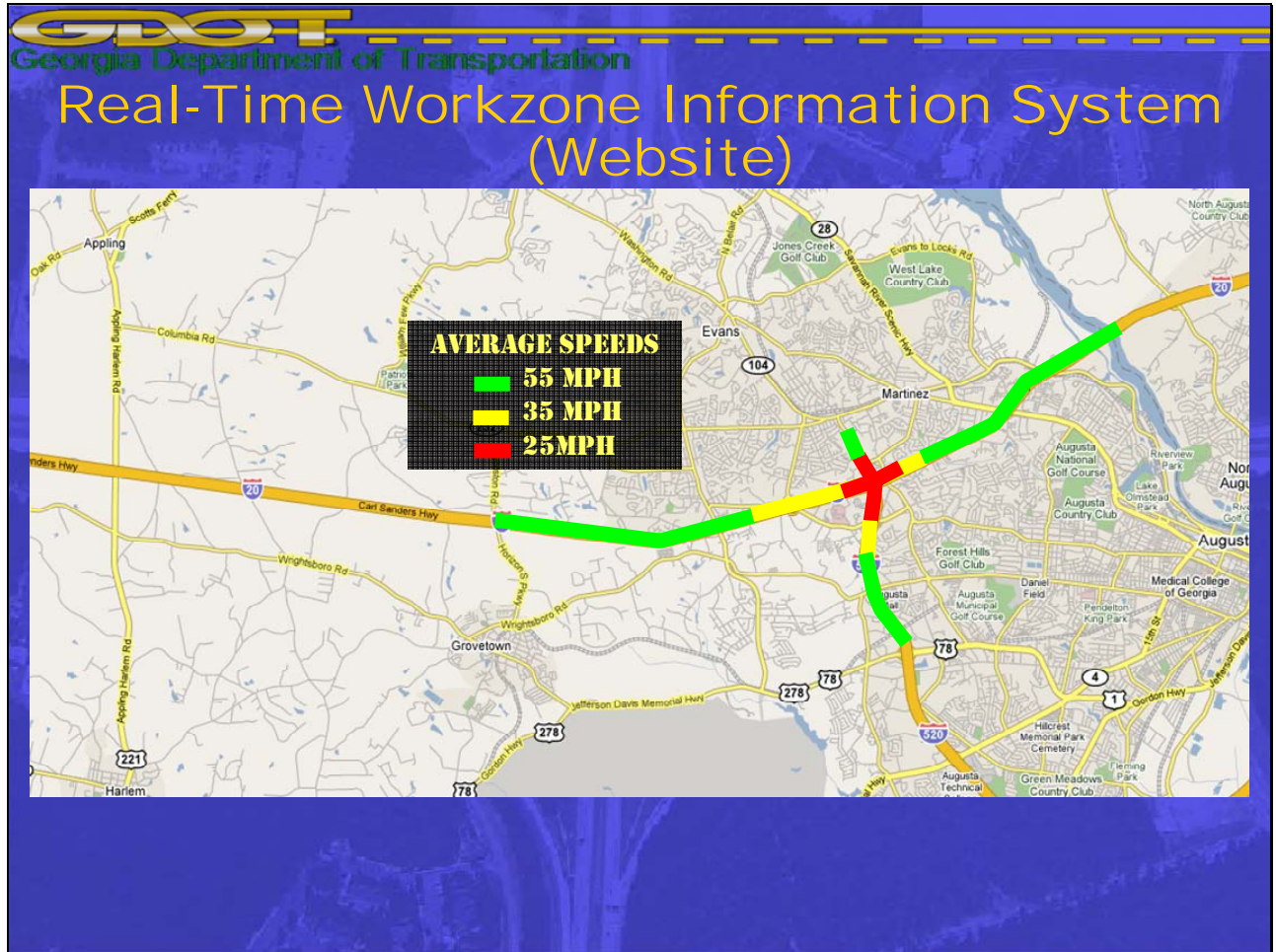
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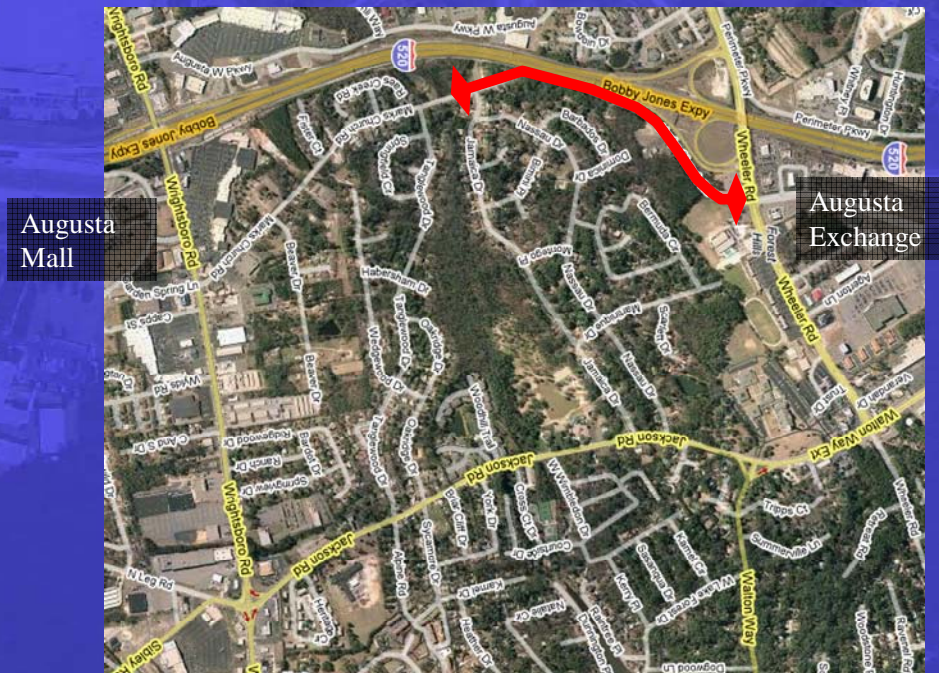
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Georgia Department of Transportation

# Important Closures and Detours

## Marks Church Road



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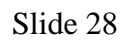
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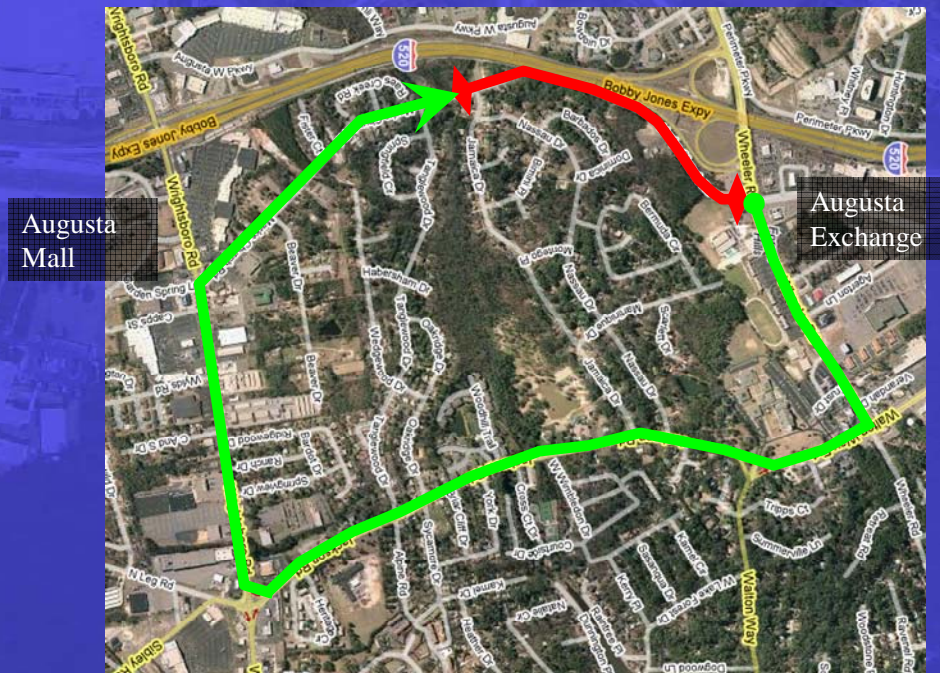


# Marks Church Road



# Important Closures and Detours

## Marks Church Road



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Georgia Department of Transportation

## Important Closures and Detours

To be closed within first year of construction.

Closed for 90 Days

Not to be closed during the Christmas shopping period which is defined as the 5:00 a.m. the day before Thanksgiving until 5:00 a.m. January 2.

Augusta  
Mall



Augusta  
Exchange

Slide 30





Georgia Department of Transportation

# Important Closures and Detours

## Eastbound I-520 to Eastbound I-20



Eastbound I-520 to Eastbound I-20 Loop  
To be closed within second year of  
Construction

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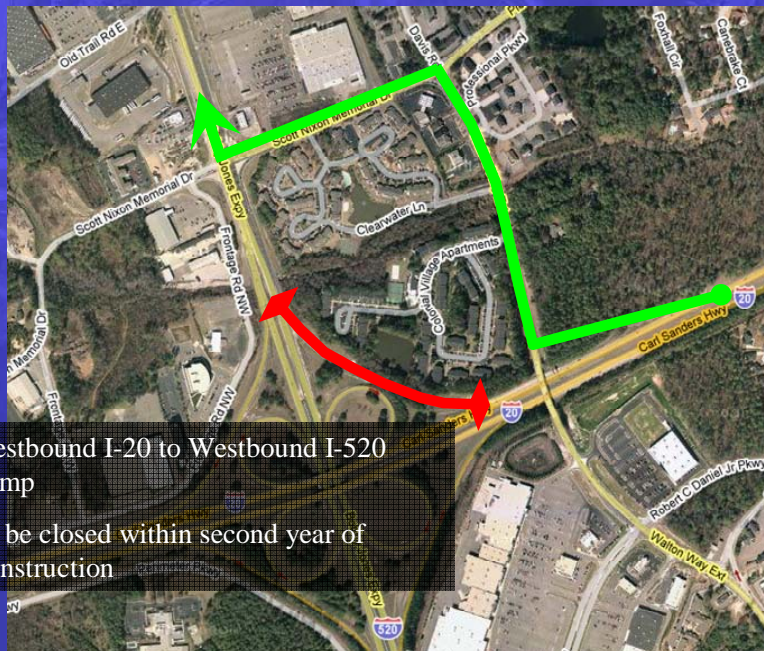
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Georgia Department of Transportation

# Important Closures and Detours

## Westbound I-20 to Westbound I-520



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- 210570- Richmond
  - I-20 from East of Warren Road to West of the Augusta Canal
  - Scheduled Summer 2007 Letting
- Costs
  - PE: \$ 1,500,000
  - R/W: \$ 0
  - CST: \$ 31,000,000



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[illegible]

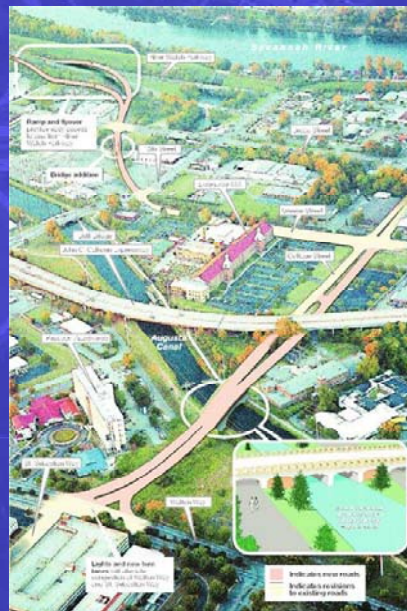


## Other Projects of Interest

- 262750- Richmond
  - SR 28/St. Sebastian St. Extension near CSX RR and 15 Street
  - Right-of-way acquisition is near completion
  - Scheduled 2007 Letting

- Costs

- PE: \$ 1,200,000
- R/W: \$ 5,400,000
- CST: \$ 22,000,000



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Georgia Department of Transportation

## Other Projects of Interest

- 250470- Columbia
  - Riverwatch Parkway Extension from Baston Road to Washington Road
  - Right-of-way acquisition is underway with additional funds to be authorized in FY 2008 & 2009
  - Construction funds are currently scheduled for FY 2010
- Costs
  - PE: \$ 2,300,000
  - R/W: \$ 31,000,000
  - CST: \$ 28,000,000

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- R/W: \$ 2,000,000
  - CST: \$ 7,400,000
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[illegible]





Georgia Department of Transportation

## Other Projects of Interest

- PI 0006699- Columbia
  - I-20 Noise Barriers west of SR 383
  - FY 2008 Letting
- Costs
  - PE: \$ 200,000
  - R/W: \$ 0
  - CST: \$ 4,900,000

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Georgia Department of Transportation

## Other Projects of Interest

- 0005925- Richmond
  - Traffic Signal Upgrades SR 28 Various Locations
- M003494- Richmond
  - Milling and Resurfacing of Washington Road
  - Summer 2007 Letting Anticipated
- Costs
  - PE: \$ 0
  - R/W: \$ 0
  - CST: \$ 2,500,000

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- 
- A photograph of a road intersection. In the background, there is a building with a sign that reads "Kirk & Sons". The road has a yellow double line and a white arrow pointing left. There are trees and a utility pole on the left side of the road.







Georgia Department of Transportation

## Other Projects of Interest

- PI 250510- Richmond
  - CR 1501/Wrightsboro Road from Jimmie Dyess Parkway to I-520 Ramps
  - Right-of-way acquisition just underway
  - Construction funds moved to Long Range
- Costs
  - PE: Local
  - R/W: \$ 8,900,000
  - CST: \$ 16,000,000

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Georgia Department of Transportation

## Other Projects of Interest

- PI 250600- Columbia
  - SR 1017/Flowing Wells Rd Fm I-20 To Washington Rd
  - Construction funds moved to Long Range
- Costs
  - PE: Local
  - R/W: \$ 5,400,000
  - CST: \$ 10,600,000

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Georgia Department of Transportation

## Under Construction

- Davis Road / Walton Way Extension
  - Costs
    - PE: \$ 1,200,000
    - R/W: \$ 22,400,000
    - CST: \$ 22,300,000
  - Scheduled Completion Date of January 30, 2008
  - 59 Percent Complete
- I-20 at Cranes Creek
  - Costs
    - PE: \$ 30,500
    - R/W: \$ 480,000
    - CST: \$ 11,400,000
  - Scheduled Completion Date of April 30, 2007
  - 75 Percent Complete

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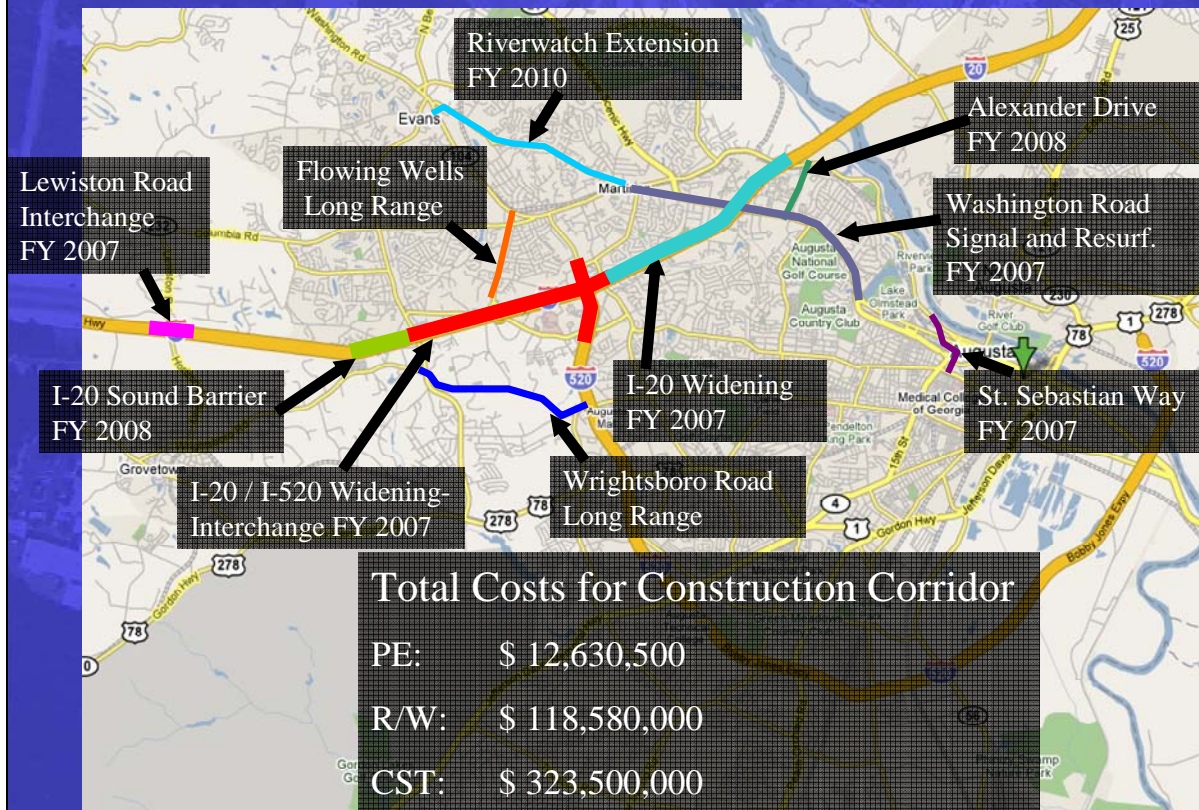
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Georgia Department of Transportation

# Construction Corridor



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Georgia Department of Transportation

## Contact Information

### Webpages

<http://www.georgia-navigator.com>

### Contact Personnel

W. Scott Stephens; Augusta Area Engineer  
(706) 855-3466

Kyle Baxley; Construction Project Engineer  
(706) 855-3466

Cissy Mc Nure; District Communications Officer  
(478) 552-4656

David Spear; Media Relations Manager  
(404) 657-6952

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